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Listing of Claims:

Note: the following claim listing is included for the convenience of the reader; no claim

amendments are presented herein.

1. (Canceled)

2. (Previously presented) The computer keyboard of claim 4, wherein the plurality of keys

includes multiple character keys having respective characters assigned thereto and a plurality of

modifier keys, and wherein the microprocessor is configured to generate a first signal upon

detecting a character key to be in a pressed condition and to generate a different signal upon

detecting said character key and a modifier key to simultaneously be in a pressed condition.

3. (Canceled)

4. (Previously presented) A computer keyboard, comprising:

a plurality of keys, each key of the plurality having an unpressed condition in which no

force is exerted upon the key by a user and a pressed condition in which force is exerted on the

key by a user;

a force detection circuit configured to

scan each key of the plurality to determine if a scanned key is in a pressed

condition,

quantify, upon determining that a scanned key is in a pressed condition, the force

exerted by a user on said key determined to be in a pressed condition, and

proceed, upon determining that a scanned key is not in a pressed condition, to

another key of said plurality without quantifying a force exerted on the key determined not to be

in a pressed condition;

a first group of conductors;

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a second group of conductors positioned in close proximity to the first group of conductors, the first and second groups of conductors forming a plurality of intersections between first group conductors and second group conductors; and

a force sensitive resistive element located between the first group conductor and the second group conductor of each of the plurality of intersections, wherein

each of the plurality of intersections corresponds to an associated key of the plurality of keys, each of the associated keys configured to compress the resistive element located at the corresponding intersection upon exertion of force on the associated key,

the force detection circuit is configured to quantify force exerted upon each of the associated keys based upon changes in resistance value of the resistive element at each corresponding intersection,

the force detection circuit comprises a microprocessor and a voltage divider, and the microprocessor is configured to place the voltage divider in a first condition when scanning each key of the plurality to determine if a scanned key is in a pressed condition and in a second condition when quantifying the force exerted by a user on a key determined to be in a pressed condition.

5. (Original) The computer keyboard of claim 4, wherein:

the voltage divider includes a voltage measuring node,

when the force detection circuit is in the first condition, voltage at the voltage measuring node varies within a first range as a key is pressed,

when the force detection circuit is in the second condition, voltage at the voltage measuring node varies within a second range as a key is pressed, and

the second range is larger than the first range.

6. (Original) The computer keyboard of claim 4, further comprising an Analog to Digital Converter (ADC), and wherein:

the microprocessor determines a scanned key is in a pressed condition when voltage on a tested conductor of the corresponding intersection reaches a threshold value, and

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the microprocessor, after determining the scanned key is in a pressed condition,

instructs the ADC to output a digital value of a voltage on the tested conductor.

7. (Previously presented) A computer keyboard, comprising:

a plurality of keys, each key of the plurality having an unpressed condition in which no

force is exerted upon the key by a user and a pressed condition in which force is exerted on the

key by a user;

a force detection circuit configured to

scan each key of the plurality to determine if a scanned key is in a pressed

condition,

quantify, upon determining that a scanned key is in a pressed condition, the force

exerted by a user on said key determined to be in a pressed condition, and

proceed, upon determining that a scanned key is not in a pressed condition, to

another key of said plurality without quantifying a force exerted on the key determined not to be

in a pressed condition;

a first group of conductors;

a second group of conductors positioned in close proximity to the first group of

conductors, the first and second groups of conductors forming a plurality of intersections

between first group conductors and second group conductors; and

a force sensitive resistive element located between the first group conductor and the

second group conductor of each of the plurality of intersections, wherein

each of the plurality of intersections corresponds to an associated key of the

plurality of keys, each of the associated keys configured to compress the resistive element

located at the corresponding intersection upon exertion of force on the associated key,

the force detection circuit is configured to quantify force exerted upon each of the

associated keys based upon changes in resistance value of the resistive element at each

corresponding intersection, and

the detection circuit comprises a microprocessor and a RC network.

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8. (Previously presented) A computer keyboard, comprising

a grid of first group conductors and second group conductors, the first and second group

conductors forming a plurality of intersections;

a force-sensitive resistive element at each intersection of the plurality located between

one of the conductors of the first group and one of the conductors of the second group forming

said intersection;

a plurality of keys located above the plurality of intersections, each key being associated

with one intersection and configured to exert force on the conductors and force-sensitive

resistive element of the associated intersection during a key press;

a microprocessor having a plurality of first group conductor pins each in contact with one

of the first group conductors and a plurality of second group conductor pins each in contact with

one of the second group conductors;

a sub-circuit connected to at least one of the second group conductors, the sub-circuit

having a resistor network switchable by the microprocessor between a low resistance value and a

high resistance value; and

an Analog to Digital Converter (ADC) coupled to the sub-circuit and to the

microprocessor.

9. (Original) The computer keyboard of claim 8, wherein the microprocessor is configured

to:

ground to an individual conductor pin,

test another conductor pin for a threshold voltage level while the resistor network is

switched to the high resistance value,

switch the resistor network to the low resistance value upon detecting the threshold

voltage level on the tested conductor pin, and

receive from the ADC a digital value of a voltage on the tested conductor pin while the

resistor network is switched to the low resistance value.

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10. (Original) The computer keyboard of claim 9, comprising a plurality of sub-circuits

connected to a plurality of conductors of the second group of conductors.

11. (Previously presented) The computer keyboard of claim 9, wherein the microprocessor is

configured to:

store the identity of a plurality of pressed keys and force values associated with

the pressed keys, and

generate a data message containing the identities and associated force values.

12. (Original) The computer keyboard of claim 11, wherein the microprocessor is configured

to generate the data message in the form of a Human Interface Device (HID) report.

13. (Original) The computer keyboard of claim 9, wherein the plurality of keys includes

multiple character keys having respective characters assigned thereto and a plurality of modifier

keys.

14. (Original) The computer keyboard of claim 13, wherein the plurality of keys includes at

least 36 character keys.

15. (Original) The computer keyboard of claim 9, wherein the microprocessor is configured

to:

sequentially test each key for a key press by grounding a conductor pin connected to one

of the conductors forming the associated intersection and testing for the threshold voltage level

on the other of the conductors forming the associated intersection, and

receive, for only the keys for which the threshold voltage level was detected, the digital

value from the ADC.

16. (Original) The keyboard of claim 15, wherein the microprocessor is configured to

generate a data message containing identifiers for multiple keys of the plurality for which the

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threshold voltage level was detected and digital values from the ADC corresponding to the multiple keys.

17. (Previously presented) A microprocessor having preprogrammed instructions for performing steps comprising:

placing a detection circuit in a first state in which the detection circuit is configured to identity a pressed key of a keyboard;

selecting, while in the first state, a conductor pin from a group of conductor pins;

testing, while in the first state, the selected conductor pin for a threshold voltage level;

upon detecting the threshold voltage level on the selected conductor pin, placing the detection circuit in a second state by altering the resistance of a resistance network;

when in the second state, receiving a digital value for a voltage on the selected conductor pin, the digital voltage value representing an amount of force applied to the pressed key;

scanning the keyboard for presses of additional keys by testing for a threshold voltage level with regard to each of the additional keys when the detection circuit is in the first state; and

placing the detection circuit in the second state and receiving additional digital voltage values upon detection of threshold voltages with regard to the additional keys.

18. (Previously presented) The microprocessor of claim 17, having additional preprogrammed instructions for performing steps comprising:

instructing an Analog to Digital Converter (ADC) to convert a detection circuit voltage to a digital value; and

reading from the ADC a digital value for the detection circuit voltage.

19. (Original) The microprocessor of claim 17 having additional preprogrammed instructions for performing steps comprising:

storing an identifier for multiple pressed keys;

storing force measurements for the multiple pressed keys;

generating a data message containing the stored identifiers and force measurements.

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20. (Original) The microprocessor of claim 19, wherein said generating a data message

comprises generating a Human Interface Device (HID) report.

21. (Previously presented) The microprocessor of claim 17 wherein said scanning the

keyboard for presses of additional keys comprises testing for a threshold voltage level with

regard to at least 35 separate keys.

22. (Canceled)

23. (Previously presented) The computer keyboard of claim 4, wherein placing the voltage

divider in the second condition comprises altering a resistance value in a portion of the voltage

divider, said altered resistance value portion not including one of the force sensitive resistive

elements.

24. (Previously presented) The computer keyboard of claim 7, wherein the microprocessor is

configured to determine force exerted on one of the associated keys based on a time constant for

the RC network.

25. (Previously presented) The microprocessor of claim 17, wherein placing the detection

circuit in a second state by altering the resistance of a resistance network comprises altering a

resistance value in a portion of the resistance network that does not include a force sensitive

resistive element.